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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 12, 2004  
*Eric W. Gutttag*  
Eric W. Gutttag

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Irene SPITSBERG et al.

Serial No. 10/748,520

Filed: December 30, 2003

For: CERAMIC COMPOSITIONS USEFUL IN THERMAL BARRIER COATINGS  
HAVING REDUCED THERMAL CONDUCTIVITY

:  
: Group Art Unit:  
: Confirmation No.:

**INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 CFR 1.56, 1.97 AND 1.98**  
**(WITHIN 3 MONTHS OF FILING OR PRIOR TO FIRST OFFICE ACTION)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.56, 1.97 and 1.98, Applicants request the Examiner to make of record the documents listed on the attached PTO-1449 forms. Copies of the listed documents that are not U.S. patent documents are also enclosed. In accordance with MPEP 609, the Examiner is requested to initial each document listed on the attached PTO-1449 forms in the space provided, make a copy of the initialed forms, and return the copy to Applicants' attorney.

Applicants also request the Examiner to consider and make of record certain copending U.S. applications that are listed in the attached Table entitled "Copending U.S. Patent Applications." Copies of the copending applications listed in the attached table are also enclosed. In accordance with MPEP 609, the Examiner is requested to initial each copending application listed on the attached Table in the space provided, make a copy of the initialed Table, and return the copy to Applicants' attorney.

This paper and the enclosed documents are being submitted in accordance with 37 CFR 1.97(b), i.e., within three (3) months of the application filing date or prior to a first Office Action on the merits.

Respectfully submitted,

For: Spitsberg et al.

By: *Eric W. Gutttag*

Eric W. Gutttag  
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April 12, 2004

**COPENDING U.S. PATENT APPLICATIONS**

<b>Examiner Initial</b>	<b>Applicant(s)</b>	<b>Serial No.</b>	<b>Filing Date</b>	<b>Attorney Docket No.</b>
	Gorman et al	10/748,516	12/30/03	127051
	Boutwell et al	10/748,517	12/30/03	127084
	Darolia et al.	10/748,519	12/30/03	128895
	Spitsberg et al.	10/748,508	12/30/03	129967
	Spitsberg et al	10/748,521	12/30/03	130706
	Spitsberg et al	10/748,518	12/30/03	130707
	Spitsberg et al	10/748,513	12/30/03	143385



# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

## Complete if Known

Application Number	10/748,520
Filing Date	December 30, 2003
First Named Inventor	Irene Spitsberg
Art Unit	
Examiner Name	
Attorney Docket Number	129968

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	- Kind Code <sup>2</sup> (if known)			
		US-	3,525,597	08/25/70	Mazdiyasni et al	
		US-	4,535,033	08/13/85	Stecura	
		US-	5,876,860	03/02/99	Marijnissen et al	
		US-	6,015,630	01/18/00	Padtare et al	
		US-	6,025,078	02/15/00	Rickersby et al	
		US-	6,117,560	09/12/00	Maloney	
		US-	6,177,200	01/23/01	Maloney	
		US-	6,231,991 B1	05/15/01	Maloney	
		US-	6,261,643 B1	07/17/01	Hasz et al.	
		US-	6,284,323 B1	09/04/01	Maloney	
		US-	6,312,832 B1	11/06/01	Alperine et al	
		US-	6,333,118 B1	12/21/01	Alperine et al	
		US-	6,447,854 B1	09/10/02	Rigney et al	
		US-	6,461,107 B1	10/08/02	Lee et al	
		US-	6,461,108 B1	10/08/02	Lee et al	
		US-	2002/1072838 A1	11/21/02	Rigney et al	
		US-	2003/0077477 A1	04/24/03	Bruce et al	
		US-	2003/0129316 A1	06/10/03	Darolia et al	
		US-	2003/0059633 A1	03/27/03	Ackerman et al	
		US-	2003/0108768 A1	06/12/03	Subramanian	
		US-	2003/0049470 A1	03/13/03	Maloney	
		US-	2003/0224200 A1	12/04/03	Bruce	

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s) volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		HWANG et al, <i>Grain Size Control Of Tetragonal Zirconia Polycrystals Using the Sapce Charge Concept</i> , J. Am. Ceram. Soc., (1990), 73(11):3269-77	
		KIM, "Effect of Ta <sub>2</sub> O <sub>5</sub> , Nb <sub>2</sub> O <sub>5</sub> , and HfO <sub>2</sub> Alloying on the Transformability of Y <sub>2</sub> O <sub>3</sub> -Stabilized Tetragonal ZrO <sub>2</sub> ", J. Am. Ceram. Soc., 73(1):115-120	
		NAKAYAMA et al., "Effect of La <sub>2</sub> O <sub>3</sub> Addition on Thermal Stability of Y-TZP," J. Mat. Sci. Lett., 18:1339-41 (1999)	
		VASSEN et al., "Zirconates as New Materials for Thermal Barrier Coatings," J. Am. Ceram. Soc., 83(8):2023-28 (2000)	

Examiner Signature		Date Considered	
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